



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Soo-Guy RHO, *et al.*

Appl. No. 10/676,667

Filed: October 1, 2003

Confirmation No.: 8980

For: **LIQUID CRYSTAL DISPLAYS AND
LIQUID CRYSTAL DISPLAY
SUBSTRATES USING AN
ORGANIC INSULATING
MATERIAL**

Art Unit: 2871

Examiner: T. Chowdhury

Atty. Docket: 6192.0356.C3

Information Disclosure Statement

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. §§ 1.56, 1.97 and 1.98, applicants respectfully bring the following information listed on accompanying Form PTO-1449 to the attention of the examiner.

Where the publication date of a listed document does not provide a month of publication, the year of publication of the listed document is sufficiently earlier than the effective U.S. filing date and any foreign priority date so that the month of publication is not in issue. Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith. It is further understood that the Examiner will consider information that had been cited by or submitted to the U.S. Patent and Trademark Office in a prior application relied on under 35 U.S.C. §120. 1138 OG 37, 38 (May 19, 1992).

Applicants have checked the appropriate boxes below.

- ☐ 1. This Information Disclosure Statement is being filed within three months of the U.S. filing date OR before the mailing date of a first Office Action on the merits OR before the mailing date of a first Office Action after the filing of a request for continued examination under 37 C.F.R. §1.114. No certification or fee is required.
- ☐ 2. This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection or Notice of Allowance.
- ☐ a. I hereby certify that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).
- ☐ b. I hereby certify that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a

counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).

☐ c. Attached is our check in the amount of \$ 180.00 in payment of the fee under 37 C.F.R. § 1.17(p).

☒ 3. This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. It is hereby requested that the Information Disclosure Statement be considered.

☒ a. I hereby certify that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1). Attached is our check in the amount of \$180.00.

☐ b. I hereby certify that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application or, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).

☐ 4. Relevance of the non-English language document(s) is discussed in the present specification.

☒ 5. A concise explanation of the relevance of the non-English language document(s) appears below:

English language counterpart, U.S. Patent 5,187,602, is filed herewith for JP 7-181514.

☐ 6. The document(s) was/were cited in a corresponding foreign application. Attached is a copy of the International Search Report.


☐ 7. The Examiner's attention is directed to co-pending U.S. Patent Application No. _____, filed _____, which is directed to related technical subject matter. The identification of this U.S. Patent Application is not to be construed as a waiver of secrecy as to that application now or upon issuance of the present application as a patent. The Examiner is respectfully requested to consider the cited application and the art cited therein during examination.

☐ 8. Copies of the documents were cited by or submitted to the Office in Application No. _____, filed _____, which is relied upon for an earlier filing date under 35 U.S.C. § 120. Thus, copies of these documents are not attached. 37 C.F.R. § 1.98(d).

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and to indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 23-1951.

Respectfully submitted,


Hae-Chan Park
Reg. No. 50,114

Date: March 3, 2005

McGUIRE WOODS LLP
1750 Tysons Boulevard, Suite 1800
McLean, VA 22102-4215
Telephone No. 703-712-5365
Facsimile No. 703-712-5280

CUSTOMER NO. 23345

MAR 14 2005

LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S
INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Page 1 of 1

Attorney Docket No.:
6192.0356.C3Serial No.:
10/676,667Applicant:
Soo-Guy RHO, *et al.*Filing Date:
October 1, 2003Group:
2871

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

EXAMINERS INITIALS	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE (IF APPRO.)
	5,187,602	February 16, 1993	Ikeda et al			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
						YES	NO
	7-181514	July 21, 1995	JAPAN	G02F	1/136	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	6-59228	March 4, 1994	JAPAN	G02F	1/13	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	7-325306	December 12, 1995	JAPAN	G02F	1/1339	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	7-15017	January 17, 1995	JAPAN	H01L	29/786	<input type="checkbox"/>	<input checked="" type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
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						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>
						<input type="checkbox"/>	<input type="checkbox"/>

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

Japanese Office Action dated February 2, 2005

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not conformance and not considered. Include copy of this form with next communication to applicant.

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Rho et al.

Serial No.: To Be Assigned

Filed: Concurrently Herewith

For: LIQUID CRYSTAL DISPLAYS AND LIQUID CRYSTAL DISPLAY
SUBSTRATES USING AN ORGANIC INSULATING MATERIAL (as amended)

Date: October 1, 2003

BOX PATENT APPLICATION

Commissioner for Patents

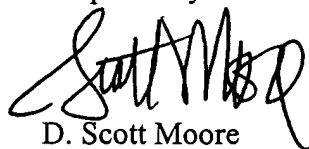
Washington, DC 20231

INFORMATION DISCLOSURE STATEMENT

Sir:

Attached is a list of documents on form PTO-1449. Items 1-36 listed on the PTO-1449 were cited in parent application Serial No. 10/387,278, filed March 12, 2003. Because the benefit of this application is claimed under 35 U.S.C. §120, no copies of these items need to be furnished in accordance with 37 C.F.R. §1.98(d); however, copies will be furnished on request. It is requested that these documents be considered by the Examiner and officially made of record in accordance with the provisions of 37 C.F.R. §1.97 and Section 609 of the MPEP.

Respectfully submitted,



D. Scott Moore

Registration No. 42,011

Customer No. 20792

Myers Bigel Sibley & Sajovec

P. O. Box 37428

Raleigh, North Carolina 27627

Telephone: (919) 854-1400

Facsimile: (919) 854-1401

CERTIFICATE OF EXPRESS MAILING

"Express Mail" mailing label number: EV353592250US

Date of Deposit: October 1, 2003

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to Mail Stop PATENT APPLICATION, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.



Traci A. Brown

FORM PTO-1449 U.S. Department of Commerce
Patent and Trademark Office
LIST OF DOCUMENTS CITED BY APPLICANT
(Use several sheets if necessary)

Attorney Docket Number
9649-479CTDVCT2

Serial No.
To be assigned

Applicants: Rho et al.

Filing Date: Concurrently herewith

Group:

U. S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
	1	6,507,045 B2	1/14/03	Gu et al.	257	72	
	2	6,441,468B1	8/27/02	Yamazaki	257	642	
	3	6,188,452	02/2001	Kim et al.	349	043	
	4	6,160,598	12/2000	Lyu	349	111	
	5	6,122,025	09/2000	Kim	349	110	
	6	6,100,954	08/2000	Kim et al.	349	138	
	7	6,091,464	07/2000	Song	349	038	
	8	6,081,315	06/2000	Matsuyama et al.	349	143	
	9	6,038,008	03/2000	Kim et al.	349	138	
	10	6,001,539	12/1999	Lyu et al.	430	317	
	11	6,008,065	12/1999	Lee et al.	438	030	
	12	5,981,970	11/1999	Dimitrakopoulos et al.	257	040	
	13	5,970,318	10/1999	Choi et al.	438	099	
	14	5,926,235	7/20/99	Han et al.	349	43	
	15	5,903,326	05/1999	Lee	349	042	
	16	5,880,794	03/1999	Hwang	349	043	
	17	5,877,832	03/1999	Shimada	349	043	
	18	5,866,919	02/1999	Kwon et al.	349	042	
	19	5,859,683	01/1999	Tagusa et al.	349	044	
	20	5,854,663	12/1998	Oh et al.	349	042	
	21	5,852,481	12/1998	Hwang	349	043	
	22	5,847,781	12/1998	Ono et al.	349	043	
	23	5,818,551	10/1998	Park	349	043	
	24	5,818,549	10/1998	Maruyama et al.	349	042	
	25	5,781,254	07/1998	Kim et al.	349	044	
	26	5,781,253	07/1998	Koike et al.	349	040	
	27	5,719,422	02/1998	Burr et al.	257	345	
	28	5,643,817	7/1/97	Kim et al.	437	51	

EXAMINER

DATE CONSIDERED

FORM PTO-1449 U.S. Department of Commerce
Patent and Trademark Office
LIST OF DOCUMENTS CITED BY APPLICANT
(Use several sheets if necessary)

Attorney Docket Number
9649-479CTDVCT2

Serial No.
To be assigned

Applicants: Rho et al.

Filing Date: Concurrently herewith

Group:

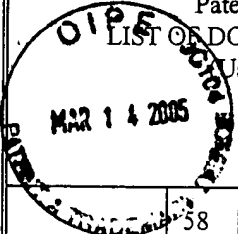
29	5,621,556	04/1997	Fulks et al.	349	042	
30	5,327,001	07/1994	Wakai et al.	257	350	
31	4,956,680	09/1990	Tanaka et al.	357	004	
32	4,943,838	07/1990	Ukai	357	23.7	
33	4,905,006	02/1990	Dohjo et al.	357	23.15	

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Translation Yes No
34	410041519A	02/1998	Japan			
35	409230384A	09/1997	Japan			
36	406084946A	03/1994	Japan			
37	402002174A	01/1990	Japan			
38	401283937A	11/1989	Japan			
39	401259563A	10/1989	Japan			
40	63-177472	07/1988	Japan			
41	EP0725301A1	8/7/96	EPO			
42	EP0466495	1/15/92	EPO			
43	JP 04-128823	4/30/92	Japan			
44	JP9236825	9/9/97	Japan			
45	JP 9279742	10/28/97	Japan			
46	JP 1124824	5/17/89	Japan			
47	JP 1103148	4/20/89	Japan			
48	JP 4118627	4/20/92	Japan			
49	JP 8179357	7/12/96	Japan			
50	JP 4163528	6/9/92	Japan			
51	JP 8166598	6/25/96	Japan			
52	JP 5232459	9/10/93	Japan			
53	JP 8015719	1/19/96	Japan			
54	JP 6333919	12/2/94	Japan			
55	JP 5074763	3/26/93	Japan			
56	JP 6018928	1/28/94	Japan			
57	JP 5119350	5/18/93	Japan			

EXAMINER

DATE CONSIDERED

FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office LIST OF DOCUMENTS CITED BY APPLICANT (Use several sheets if necessary)				Attorney Docket Number 9649-479CTDVCT2		Serial No. To be assigned	
				Applicants: Rho et al.			
				Filing Date: Concurrently herewith		Group:	
	58	JP 3225323	10/4/91	Japan			
	59	JP 6011716	1/21/94	Japan			
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	60	Notice of Rejection, Japanese application no. 325008, April 10, 2003					
	61	Office Action; Chinese application no. 97122912.0, June 15, 2003.					

EXAMINER _____

DATE CONSIDERED _____



IPW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor Patent Application of:

Docket No.: 6192.0356.C3

Soo-Guy RHO, et al.

Serial No.: 10/676,667

Group Art Unit: 2871

Confirmation No.: 8980

Filed: October 1, 2003

Examiner: CHOWDHURY, Tarifur R.

For: **LIQUID CRYSTAL DISPLAYS AND LIQUID CRYSTAL DISPLAY
SUBSTRATES USING AN ORGANIC INSULATING MATERIAL**

Mail Stop: Issue Fee
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REQUEST FOR INITIALED PTO-1449 FORM

Sir:

On October 1, 2003, Applicants filed an Information Disclosure Statement, and on March 3, 2005, Applicants filed a supplemental Information Disclosure Statement in the above-captioned matter.

Applicants note that initialed PTO-1449 forms have never been returned. Accordingly, Applicants respectfully request that the Examiner initial the space adjacent to the citations and return a signed and initialed copy of the Form PTO-1449 Form to the Applicant's representative as soon as possible.

For the convenience of the Examiner, Applicants are submitting herewith:

1. A copy of the Information Disclosure Statement filed October 1, 2003 and the Forms PTO-1449 filed therewith;
2. A copy of the supplemental Information Disclosure Statement filed March 3, 2005, and the Forms PTO-1449 filed therewith;
3. Copies of each of the respective date-stamped mailroom receipts evidencing the filing of the same.

Should there be any questions, the Examiner is invited to contact the undersigned at the below-listed telephone number.

Respectfully submitted,

A handwritten signature in black ink, appearing to read 'Hae-Chan Park', written over the printed name.

Hae-Chan Park
Reg. No. 50,114

Date: March 14, 2005

McGuireWoods LLP
1750 Tysons Boulevard
Suite 1800
McLean, VA 22102-4215
Tel: 703-712-5365
Fax: 703-712-5280

\\COM\492577.1



Mail Stop Patent Application DSM/Hb

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Date: 10/1/03

Doc. No. 9649-479CTDVCT2

Serial No. to be assigned

Inventor: Rho et al

Sir: Kindly acknowledge receipt of the accompanying items listed below
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Mail Stop Patent Application DSM/Hb

Commissioner for Patents
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Alexandria, VA 22313-1450

Doc. No. 9649-479CTDVCT2

Serial No. to be assigned

Inventor: Rho et al

Sir: Kindly acknowledge receipt of the accompanying items listed below
by placing your receiving stamp hereon and return mailing:

Application Transmittal and:
Specification pages 35

No. of Claims 45 (before Prelim. Amend)

Declaration & POA

Assignment and Fee

Small Entity Statement

Formal Drawings/ sheets

Associate Power of Attorney

Exp. Mail 1st Class Mail

Other:

Check \$

IDS & PTO-1449

Amendment & Amend. Transmittal

Preliminary Amendment

Issue Fee

Brief

Appeal

Submittal of Priority Doc.

Respectfully submitted,
MYERS BIGEL SIBLEY & SAJOVEC, P.A.
Attorneys for Applicant



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Time In <input type="checkbox"/> AM <input type="checkbox"/> PM	Military <input type="checkbox"/> 2nd Day <input type="checkbox"/> 3rd Day	Return Receipt Fee		Delivery Date	Time <input type="checkbox"/> AM <input type="checkbox"/> PM	Employee Signature	
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Inventors: Soo-Guy RHO, *et al.*
Serial No.: 10/676,667
Filing Date: October 1, 2003
Confirmation No. 8980
For: LIQUID CRYSTAL DISPLAY AND LIQUID
CRYSTAL DISPLAY SUBSTRATES USING AN
ORGANIC INSULATING MATERIAL

Date: March 3, 2005
Group Art.: 2871
Examiner: T. Chowdhury
Atty. Docket: 6192.0356.C3

Commissioner for Patents:

Please place the Patent Office receipt stamp hereon to acknowledge receipt of the following:

1. An Information Disclosure Statement;
2. A 1449 Form along with a copy of the cited references;
3. Check in the amount of \$180.00; and
4. One acknowledgement postcard.

Hae-Chan Park/tjs
Registration No. 50,114

HAND DELIVER

Inventors: Soo-Guy RHO, *et al.*
Serial No.: 10/676,667
Filing Date: October 1, 2003
Confirmation No. 8980

Date: March 3, 2005
Group Art.: 2871
Examiner: T. Chowdhury
Atty. Docket: 6192.0356.C3

For: LIQUID CRYSTAL DISPLAY AND LIQUID
CRYSTAL DISPLAY SUBSTRATES USING AN
ORGANIC INSULATING MATERIAL

Commissioner for Patents:

Please place the Patent Office receipt stamp hereon to acknowledge receipt of the following:

1. An Information Disclosure Statement;
2. A 1449 Form along with a copy of the cited references;
3. Check in the amount of \$180.00; and
4. One acknowledgement postcard.

Hae-Chan Park/tjs
Registration No. 50,114

HAND DELIVER

